0321.68812

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. Sailor

Serial No.: 10/589,741

Conf. No.: 9856

Filed: 8/16/2006

For: OPTICALLY ENCODED PARTICLES

WITH GREY SCALE SPECTRA

Art Unit: 2876

Examiner: Michael S. Andler

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

DECLARATION OF PRIOR INVENTION TO OVERCOME SAILOR U.S. PUBLISHED APPLICATION WO 2003/067231 (37 C.F.R. §1.131)

PURPOSE OF DECLARATION

This Declaration is to establish completion of the invention as claimed in at least claim 18 of this application in the United States at a date prior to August 14, 2003, which is the date of publication of WO 2003/067231. The person making this Declaration is an inventor.

DECLARATION

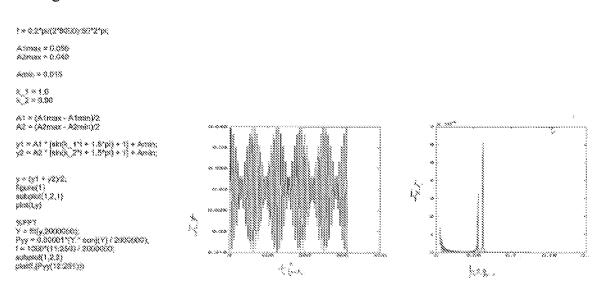
- 1. I am a named inventor in the present patent application, and have personal knowledge of the facts stated herein.
- 2. I am Professor of Chemistry and Biochemistry and Bioengineering at the University of California, San Diego. I hold a B.S. degree in Chemistry from Harvey Mudd College, and M.S. and Ph.D. degrees in Chemistry from Northwestern University.
- 3. The invention as claimed in at least claim 18 was completed before August 14, 2003.
- 4. The invention claimed in the present application in at least claim 18 was completed and conducted in experiments that produced grey scale photonic particles prior to August 14, 2003.
- 5. Specifically, the present application describes experiments on pages 6-7 with the following paragraph "Experiments were conducted to demonstrate the invention. Grey scale samples were prepared by anodically etching p++ type, B-dope, (100) oriented silicon with <1mOhm-cm resistivity in a solution of 3:1 HF (48%, aq)/ethanol by volume. Computer generated anodic current waveforms consistent with the above explanations for grey scale coding were applied and a platinum mesh electrode was used as the counter electrode. Results were consistent with expectations." These experiments were completed on July 9, 2003. An excerpt from the invention disclosure that my co-inventor, Shawn Meade, and I signed on August 14, 2003 indicating the

reduction to practice by July 9, 2003 is shown below.

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G. INVENTORS' SIGNATURES By signatur below, I minimalign my resp	crostation and	N. WITNESS - invention disclosed to and understood by:					
Male	8/14/03	2 / L. L.	8/14/03				
	8/11/03	Waness specime	Date				
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inventor signature	Osse						

6. The following data was taken from the reduction to practice that was completed on July 9, 2003 for samples with two spectral line ratiometric grey scale coding.



Sample	W.	ROMOX	Akmex	L1	7.3	31	XX	A1.A2	13:33	13812
38/5 14	122	\$5	48	\$73.8	814.88	2484	2858	3	11.87	6.933368
3885_12	128	45	411	889.58	558.75	2787	2856	1.325		0.834667
325_15	183	3.5	\$15	542.18	673.85	2222	2836	3.2867		0.834830
SVN 18	124	35	25	35.294	682.57	248	2850	5.8		\$ \$4817
	108	80	483	58(2,6)3	633,50	3459	.50000	1.28	1.18	9.831893
39819		\$8	35	500.98	6334,630	3420	2868	1.67	1.28	9.336012
WS 20	138	60	303	878.91	823.27	3480	18381	2	1.84	0.931927

7. The following data was taken from the reduction to practice that was completed on July 9, 2003 for samples with ten spectral line ratiometric grey scale coding.

Whiteholder Sine components yt = At "[Shi(x_1"1 + 361"pi) + 1] + Amin; y2 = A2 "[Shi(x_2"1 + 36"pi) + 1] + Amin; ya = 44 - (1800), 3°1 + 3°2°10) + 11 + 40000 ya = 44 ° (1800), 4°1 + 3°2°10) + 11 + 40000 (6 = A5 * [88](5*1 + 34*3) + 1] + A030) y6 = A6 * [88](5*1 + 34*3) + 1] + A030) [arck 71 + \$450] + 1] + Amin [arck 81 + 3450] + 1] + Amin 95 = A5 * \$656, 35 + 35 *0) + 1] + Amer. 910 = A15 * [666, 167 + 36 *6) + 1] + Amer. % Composite Waselom (Average of all sine components) A=04+30+30+30+30+200+30+303+30+303+30 Ten Spectral Line Waveform Parameters \$60000) NFIe Saving Protocol, generates 1D column vector text lite A0005 P 3.002 room = stee(y') fit = fapen(wt_2886.hd,%/); $k_{\rm c}$ 5 to $k_{\rm c}$ 10 \times 0.2 to 1.5, respectively, with 0.1 species phase offset \times 3.4 pi 568 5368 habase(hei) 449264 ann 10000 mee 3000 2258 8888 No. 94,207 | W13,2 | 12,1905 | 0,1900 | 0,1900 | 0,1900 | 0,1966 \$FFT Y = 880,2000000) Pyr = 0.0001177 * cus(Y) / 2000000); = 4 100,751.000) / 2000000 .e.3300 | 0.3300 | 0.1800 | 50.18000 \$ 60.59000 0.58% 0.592 C.392 0.58% 0.68% 0.88% 0.5372 | 0.5072 | 0.1072 | 0.5072 88,270 | 872,7 | 6,7228 | 6,3539 | 6,3735 | 6,3759 | 6,980 9.1000 0.1322 0.1328 0.1526 0.1536 \$50.00(3) post(3Pyg(12:3013) | weight | which is the is continued | a continued | a took | a continued | a continue

8. As a person signing below, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under 18 U.S.C. §1001, and that such willful statements may jeopardize the validity of this application or any patent issued thereon.

Declarant's Signature:

Michael J. Sailor

Date: Address:

Friday, January 7, 2011 8224 Caminito Maritimo

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Citizenship:

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